CLAIMS: I claim:

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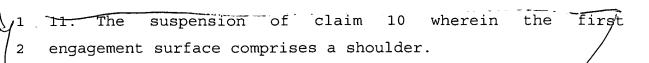
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- a pivoting assembly having:
- a pivot arm pivotally coupled to the frame and having a first engagement surface;
 - a drive assembly pivotally coupled to the frame and having a second engagement surface configured to engage the first engagement surface; and

wherein the second engagement surface is configured to disengage from the first engagement surface upon pivotal movement of the drive assembly in a first direction.

- 2. The suspension of claim 1 wherein the first engagement surface comprises a shoulder.
- 1 3. The suspension of claim 1 wherein the second 2 engagement surface comprises a cylindrical shape.
- 1 4. The suspension of claim 1 wherein the first engagement 2 surface comprises an undulating surface.
- 1 5. The suspension of claim 3 wherein the cylindrical shape is received by the undulating surface.
- 1 6. The suspension of claim 1 wherein the pivot arm and
- 2 the drive assembly are pivotally coupled to the frame at a
- 3 common location on the frame.

- 1 7. The suspension of claim 1 further comprising a
- 2 resilient member for regulating the second engagement
- 3 surface disengage from the first engagement
- 1 8. The suspension of claim 1 wherein the pivot arm
- 2 further comprises a first and second ends and wherein the
- 3 first end has a castor assembly coupled thereto and wherein
- 4 the second end comprises the first engagement surface.
- 1 9. The suspension of claim 6 wherein the pivot arm
- 2 further comprises a first and second ends and wherein the
- 3 first end has a castor assembly coupled thereto and wherein
- 4 the second end comprises the first engagement surface, and
- 5 wherein the common pivot location is between the first and
- 6 second ends.
- 1 10. A wheelchair suspension comprising:
- 2 a frame;
- at least one pivot arm pivotally coupled to the frame
- 4 and having a first engagement surface;
- at least one drive assembly pivotally coupled to the
- 6 frame and having\a second engagement surface;
- wherein the pivot arm and drive assembly are pivotally
- 8 coupled to the frame at a common location on the frame; and
- 9 wherein the first and second engagement surfaces are
- 10 configured to engage each other upon pivotal motion of the
- 11 drive assembly in a first direction and to disengage from
- 12 each other upon-pivotal motion of the drive assembly in a
- 13_second direction.



- 1 12. The suspension of claim 10 wherein the second
- 2 engagement surface comprises a cylindrical shape.
- 1 13. The suspension of claim 10 wherein the first
- 2 engagement surface comprises an undulating surface.
- 1 14. The suspension of claim 10 further comprising a
- 2 resilient member disposed between the pivot arm and the
- 3 drive assembly to limit the relative pivotal movement
- 4 therebetween.
- 1 15. The suspension of claim 10 wherein the pivot arm
- 2 comprises a front portion having a at least one caster
- 3 coupled thereto and a rear portion having the first
- 4 engagement surface.
- 1 16. The suspension of claim 15 wherein the pivotal
- 2 coupling of the pivot arm is between the front and rear
- 3 portions of the pivot arm.
- 1 17. The suspension of claim 10 wherein pivotal motion of
- 2 the drive assembly in a first direction causes pivotal
- 3 motion of the pivot arm and pivotal motion of the drive
- 4 assembly /in a second direction does not cause pivotal
- 5 motion of the pivot arm.
- 1 18. /A wheelchair suspension comprising:
- 2 / a frame having first and second sides;

- first and second pivoting assemblies coupled to the 3 first and second sides of the frame, each pivoting assembly 4 5 comprising: a pivot arm pivotally coupled to the frame and 6 7 having a first engagement surface;
- a drive assembly pivotally coupled to the frame 8 and having a second engagement surface configured to engage 9 the first engagement surface; and

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- 10 second /engagement the surface 11 wherein
- configured to disengage from the first engagement surface 12 upon pivotal movement of the drive assembly in a first <u></u>≟13 direction. 14
 - suspension of claim 18 wherein the first 19. The 1 partially surface comprises engagement at least undulating surface. 3
 - 1 20. The suspension of claim 19 wherein the second engagement surface comprises a shape configured to be at 2 3 least partially seated within the at least partially

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